NIMA ITF TPOC Overview

Dwight E. Brown
Chief ITF (ATSIT)
703-541-4268

UNCLASSIFIED

Purpose

- **Describe the NIMA Integration Test Facility (ITF)**
- **Identify Plans for the ITF to assume full DoDIIS ITA Responsibilities for NIMA Systems**

ITF Test Mission

- **Need**
  - **To Independently Determine the Readiness for Deployment of NIMA Developed Systems and Projects**
- **Mission**
  - **Assure the Quality and Readiness of Systems Delivered to Operations by NIMA Acquisition Organizations Through Verification and Test Activities**
- **Charter**
  - **To Support the Execution of NIMA's Transition to United States Imagery and Geospatial Information Services (USIGS) Architecture**

What is USIGS?

- **The USIGS Operational Architecture Development Goal Is to Provide the IGC With Seamless Access to Imagery, Imagery Intelligence and Geospatial Information**
  - USIGS is an evolution from tailored, monolithic systems that are predominantly hardcopy production, storage, and distribution to an interoperable predominantly digital, electronic analysis and Information dissemination capability
  - Development supports this goal as well as being in concert with the *C4ISR Framework* which defines a common approach to ensure that the USIGS Architecture will be interrelatable between and among other organization's operational, systems, data, and technical architectures
  - The key to providing seamless interoperability and data access for USIGS systems will be the increased use of commercial-off-the-shelf (COTS) products and compliance with the Defense Information Infrastructure Common Operating Environment (DII COE)

What Does USIGS Mean for NIMA?

- **NIMA USIGS**
  - Incorporates elements and components of the former Defense Mapping agency, Central Imagery Office, Central Intelligence Agency, National Photographic Interpretation Center, Defense Intelligence Agency, National Reconnaissance Office, and the Services.
- **All USIGS components Require:**
  - Milestone Decision Authority
- **Commercial Products**
- **Best Business Practices**

The ITF Role in USIGS

- **Eliminates Multiple Approaches to Testing and Evaluation**
  - Legacy components and planned NIMA systems acquisitions were created using varied and widely different system development life cycles and test and evaluation processes. As such, there was no one T&E approach and process model used. A need existed to standardized the way NIMA planned and implemented T&E.
- **Standardized Approach**
  - The processes documented in the DoDD 5000.2-R and DoDIIS Instructions will be used in all NIMA system acquisition programs. Testing processes captured in NIMA Capstone (USIGS) TEMP

Testing Goals

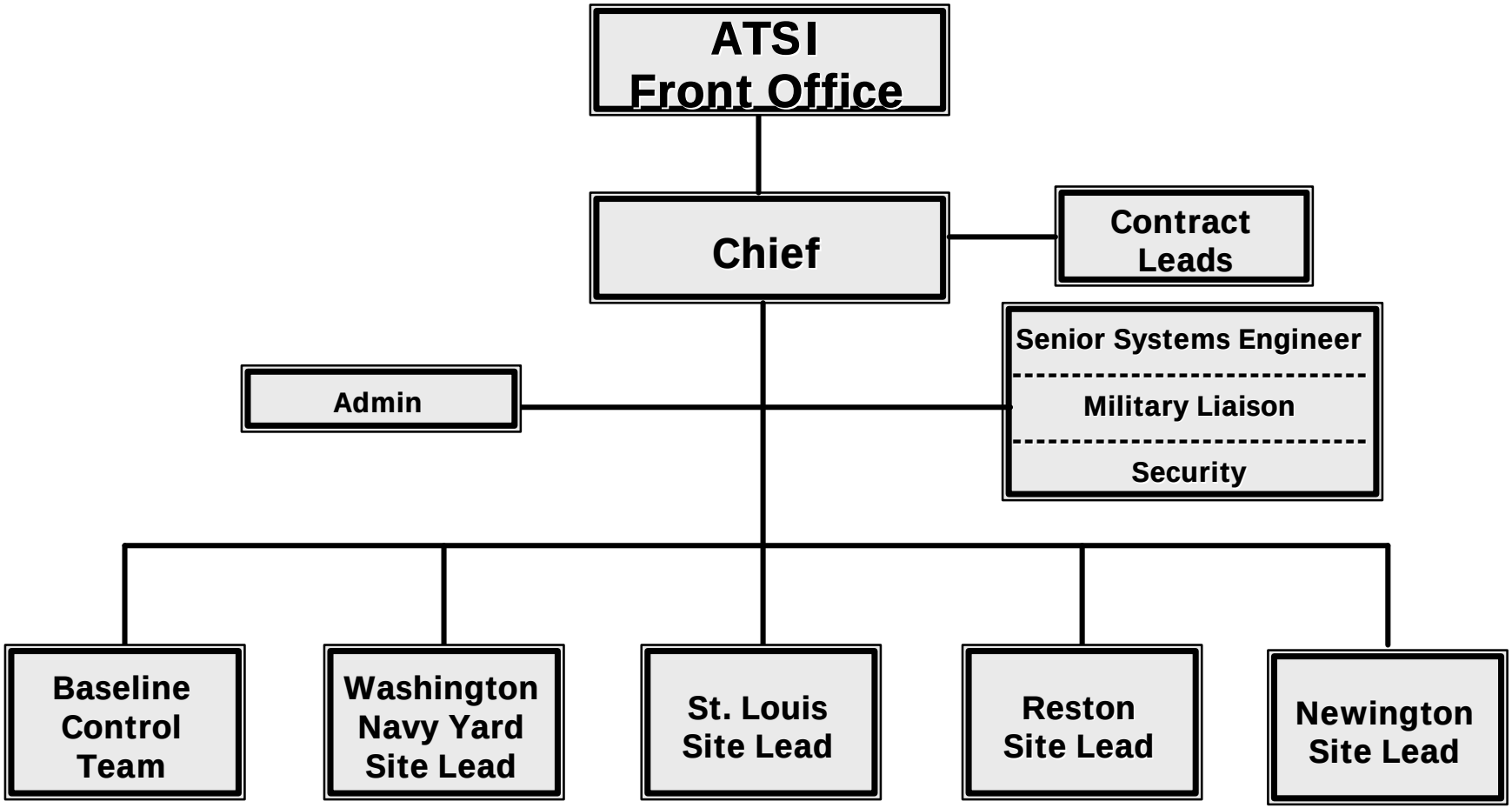
- **Verify functional and performance requirements based on customer's operational environment**
- **Ensure all verification activities produce accurate and repeatable results**
- **Ensure USIGS capabilities are delivered into the operational baseline with minimal defects**
- **Track and report defects in USIGS capabilities through Discrepancy Reports**
- **Manage the schedule and resources to ensure rapid and flexible resolution of problems with minimal impact to all customers**

Answer Critical Operational Issue

One Critical Operational Issue

- **Can the system perform its mission in its operational environment?** Test and evaluation must address the following:
  - Performance and Functionality
    - Does the USIGS performance and functionality meet operational mission requirements in steady state and during surge/crisis operations?
  - Compatibility, Integration, and Interoperability (CII)
    - Does the USIGS meet the CII requirements to effectively interact with operational baseline systems?
  - Vulnerability and Survivability
    - Does the USIGS provide the security to withstand AIS network assaults and can survive manmade and natural calamities and disasters?
  - Suitability
    - Is the USIGS usable in the operational environment to meet operational demands?
  - RM&A
    - Does USIGS meet the reliability, maintainability, and availability mission requirements?

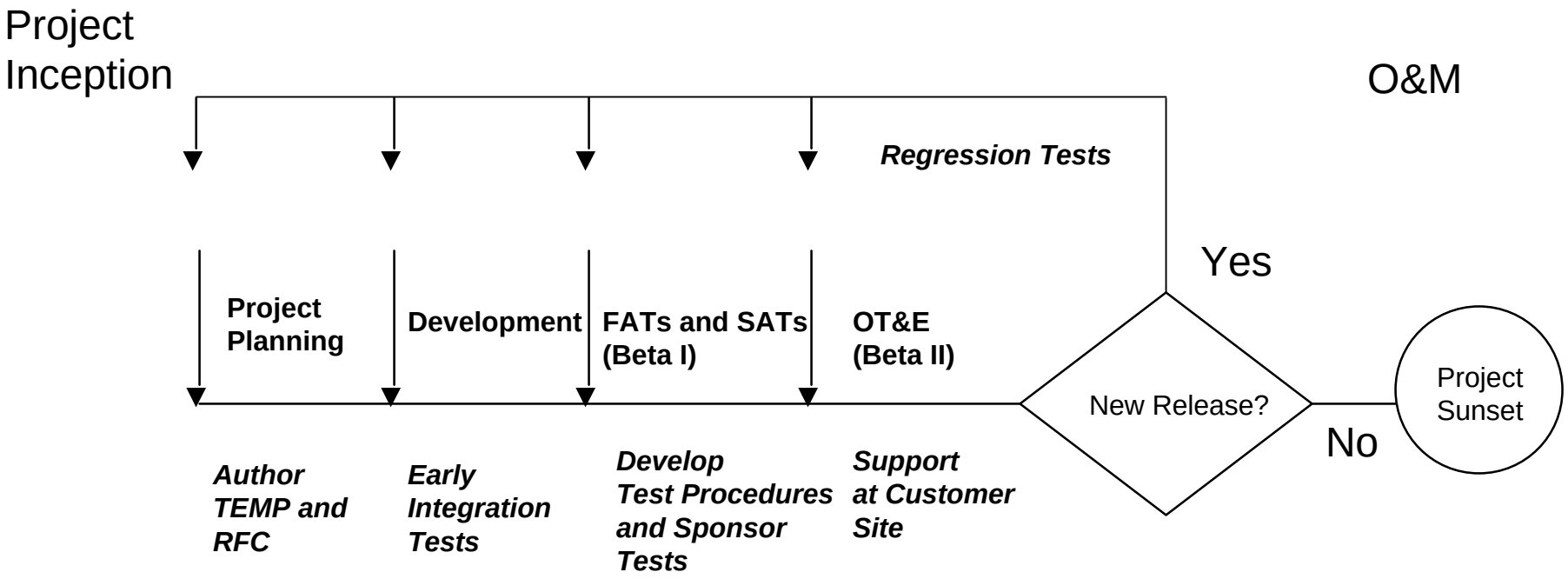
ITF ORGANIZATION



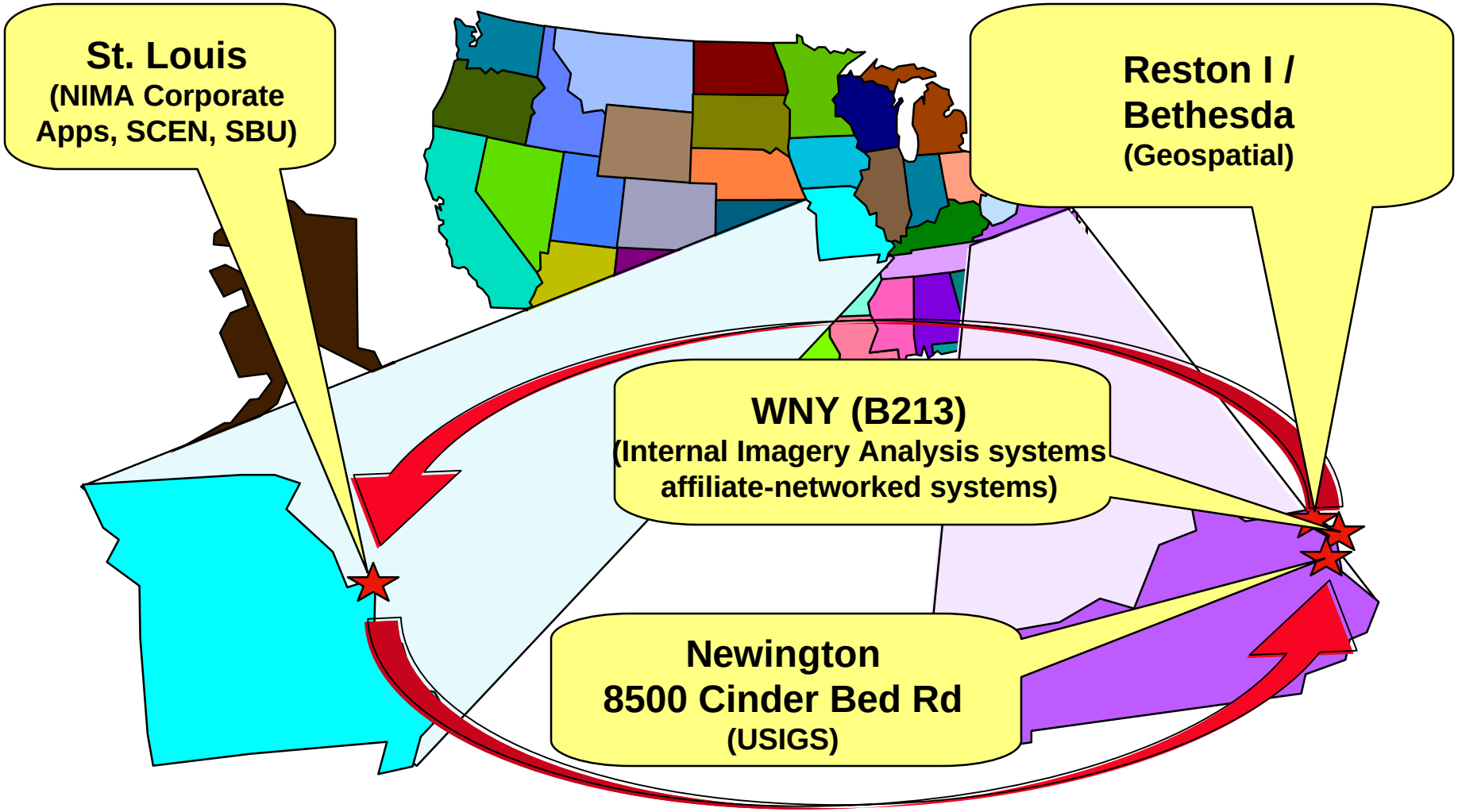
Active Involvement Today

Project	Site
• NIES(IRP)	Newington
• EIS	Newington
• NPC/Americas	Reston
• FIA	Newington
• UWIL	Newington
• MCGIF	Reston
• WALA	Newington
• UGPM/PMAA	Reston
• WIN2K	Newington
• ULE	Newington
• AQUA	WNY
• SCEN	St Louis
• SBU	St Louis
• SEGMENTS	All

Full Life-Cycle of Project Participation



One ITF; Four Locations



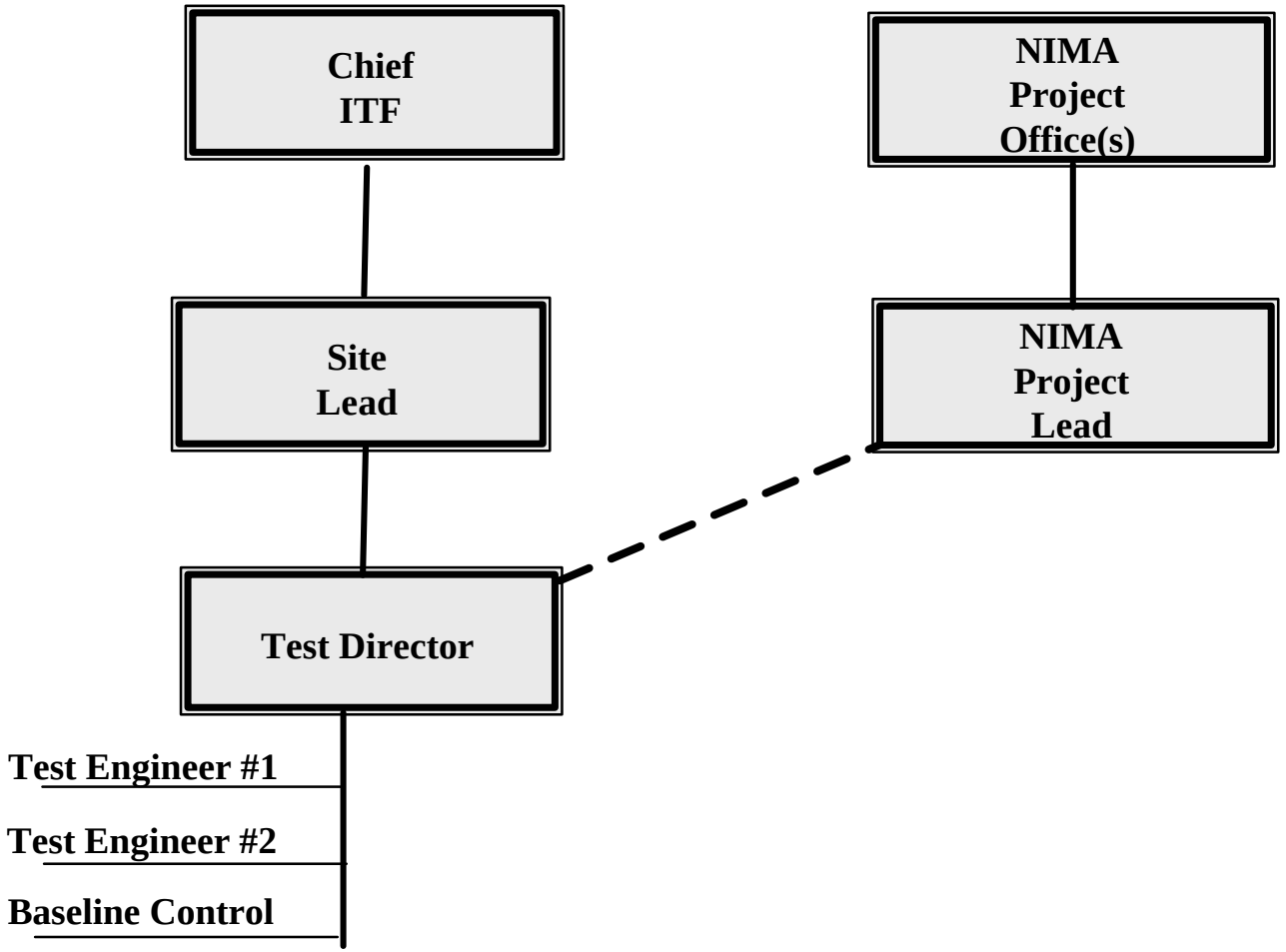
Plans to Assume ITA Responsibilities

- Ramp Up Begins in May
- Integrate with Existing Business Practices
- Maintain and Improve the Integrity and Quality of Testing

Activities Supported

Project	Site
• NIES(IRP)	Newington
• EIS	Newington
• NPC/Americas	Reston
• FIA	Newington
• UWIL	Newington
• MCGIF	Reston
• WALA	Newington
• UGPM/PMAA	Reston
• WIN2K	Newington
• ULE	Newington
• AQUA	WNY
• SCEN	St Louis
• SBU	St Louis
• SEGMENTS	All

Test Team Composition



Activities of Test Team

- **Author and Coordinate Project TEMPs**
- **Identify and Document Test Objectives**
- **Attendance and Briefings at Key Meetings**
- **Test Scenarios**
- **Test Plans**
- **Conduct of Test**
- **DoDIIS Testing**
- **JITC co-ordination**
- **Security Tests**
- **Test Reports**
- **Surge Support**

Goal: One Stop Shopping for all Level Testing

Test Quality Board (TQB)

- **Internal ITF Board that**
  - **Monitors the Quality, Integrity and Completeness of Tests**
  - **Establishes Test Policies**
  - **Oversight over all Test Activities**
- **Formal Meeting**
  - **Agenda and Minutes**
  - **Fixed Membership**
    - **Chief ITF - Chairman**
    - **ITF Sites Leads (4)**
    - **ITF BLC Lead**
    - **ITF SSE**
    - **NIMA SI**
    - **ITF Military Liaison**
- **Reviews and Approves <u>all</u> formal ITF Test Activities**
  - **TEMPs**
  - **Test Objectives**
  - **Test Plans**
  - **Test Reports**
  - **DoDIIS**

ITA Ramp-Up Plans

- **Three Phase Activity**
- **Phase 1 - Training Period (May - June 2001)**
  - **Classroom and Laboratory Training from JITF**
- **Phase 2 - Joint JITF/ITF Testing (July - Sept 2001)**
- **Phase 3 - ITF Lead Testing (Oct 2001 and Beyond)**

Summary

- **The NIMA Integration Test Facility is responsible for a key process that ensures that NIMA delivers to the customer systems that answer the "Critical Operational Issue" question**

- **Building 8510 will allow the ITF to answer the question more efficiently and effectively, reducing costs and satisfying customers expectations**